EDUSYSTEM-EDP

THE TOTAL SCHOOL COMPUTER

digital

Twenty years ago, the computer was a novelty, both in our society and in our schools. Today it's a reality. Specially designed scientific, industrial and commercial computer systems have triggered startling advances in research, information handling, and a host of other activities.

The introduction of computers into education has been much more gradual than in industry.

Schools began using computer services of neighboring colleges, businesses and service bureaus to modernize their student records, attendance accounting, and grade reporting. Computers began to assist innovative schools in scheduling and such projects as comprehensive achievement monitoring.

These primarily administrative functions were followed, in the Sixties, by requests for computer access by teachers in mathematics, science and business.

The instructional capabilities of the computer have been expanded enormously and brought a new terminology into today's progressive classrooms. CAI, CMI, CAS, COM and CAPS are all acronyms for computer assisted, managed or oriented teaching techniques.

Prior to today, the separate functions of administration and instruction have placed teachers and administrators in a dilemma. Which use of the computer is more important? Should a school acquire a data processing computer system or an instructional computer system?

Each did its primary function well and the other poorly, or not at all.

Until today.

Today there is EduSystem-EDP, the one school resource computer system which has all the instructional power of Digital's highly successful EduSystems, and the administrative systems for Educational Data Processing.

ADMINISTRATION

Schools do not make a profit.

Schools educate children.

Schools, however, are businesses in that they do manage resources, money and personnel. Any school EDP system must assist this management and reporting process.

EduSystem-EDP is based on the premise that Educational Data Processing can be available to schools at a lower cost than that of the usual commercial computer system, and should include outstanding instructional capabilities for classroom use.

The Education Data Processing system of EduSystem-EDP consists of the EDP Operating System, Application packages for Student Records, Attendance Accounting, and Grade Reporting.

EDP Operating System

- DIBOL (Digital Business Oriented Language) Monitor, Editor, Compiler and RunTime System
- BUILD utility for file creation
- UPDATE utility for changes to existing files
- SORT utility for the sorting and merging of files
- PIP (Peripheral Interchange Program) utility for the transfer of data from one storage device to another.

STUDENT RECORDS

The Student Record package includes utilities to build the Student Master Record File, an update utility to enroll new students and delete dropped or transferred students, a Student Inquiry utility to access any specific student's records, plus a listing utility to print selected information from the Student Master Record File.

ATTENDANCE ACCOUNTING

The Attendance Accounting package includes utilities for daily attendance accounting at the high school, a monthly Attendance Register for other schools in the district, and an End of Year Attendance Report. The Attendance package of EduSystem-EDP is particularly simple to use because of EduSystem-EDP's optical mark card reader. Daily attendance at the high school requires just one period of administrative computer use.

GRADE REPORTING

EduSystem-EDP offers a comprehensive Grade Reporting package for the school. Student grades are pencil marked on Grading Forms by the teacher, read by the computer, listed for verification, and finally output on Report Card forms. From teacher grading to the final carryout or self-mailing Report Card, EduSystem-EDP provides a smooth, easy Grade Reporting operation.

The Test Grading package of the included Batch BASIC system offers the staff of the entire school a powerful aid to grading multiple choice tests and adds another dimension to the worksaving capabilities of EduSystem-EDP.

OTHER PACKAGES

EduSystem-EDP is a new extension to a proven product. Both the instructional and administrative functions of EduSystem-EDP will continue to be developed. Pupil Course Request Verification, Simple Tallies, Conflict Matrices, and Resource Utilization utilities are planned for introduction next year as the EduSystem-EDP Scheduling package. This and future packages will be available to present users at a nominal charge.

SUPPORT AND TRAINING

The installation of EduSystem-EDP entitles a school to three weeks of training for their computer resource center manager in either Maynard, Massachusetts, or Palo Alto, California. Besides the standard Digital software and field service support at installation, EduSystem-EDP includes one full week of on-site support and training by a DEC educational specialist. This unique in-the-school support assures comprehensive consultation services for administrators and instructional training for participating teachers.

EduSystem-EDP offers an additional unique service in that each of its application packages is tailored to the individual data and format needs of the school. This is done according to the Customizing Form as completed by the educational specialist and the administration of the school.

INSTRUCTION

The primary function of our schools is the education of our nation's youth. This primary mission carries with it the responsibility to give each individual student meaningful, relevant instruction and guide him to the realization of his full potential. The educational computer system has proven itself to be one of the most promising teaching tools of the past decade.

Digital's EduSystems bring today's most potent technological influence, the computer, into the classroom as a phenomenon to study, as an aid to classroom management, and as a powerful, exciting teaching tool.

EduSystem-EDP offers an abundance of instructional operating systems, each providing some unique educational application.

EDUSYSTEM-25 BASIC TIMESHARING

EduSystem-25 supports up to eight teleprinter terminals simultaneously and offers on-line program and file storage on DECtape. This highly interactive form of computer use actually allows each of the eight users to simultaneously utilize the computer. Timesharing over telephone lines with neighboring schools means that EduSystem-EDP can defray its cost by supporting instructional programs other than just its own.

EDUSYSTEM-30 BATCH BASIC

Called Fast Batch BASIC, this system allows students to mark their programs with a pencil on specially formatted cards. Eliminating the usual bottleneck of students at a teleprinter or a keypunch, Fast Batch BASIC can process from fifty to two hundred student programs an hour, depending on the system configuration (DECtape + DECwriter = fifty students/hour; DEC disk + line printer = two hundred students/hour). Fast Batch BASIC offers the lowest dollar per student cost of any system.

PROGRAMMING SYSTEM/8

OS/8 is a sophisticated operating system that surrounds the other instructional systems and smooths the rapid change from one to another as classes change. OS/8 also opens the world of computer science to eager students and controls the formation and execution of FORTRAN programs, assembler programs and the use of utilities such as Editor and PIP. OS/8 gives the serious student a contemporary, powerful tool.

DIBOL

Digital's Business Oriented Language, DIBOL, brings COBOL-like and RPG-like constructs to the small computer and allows the business teacher to bring the exciting world of data processing within the grasp of his students with this powerful but easily learned and easily used operating system.

Advanced computer science and data processing students are the richest source of operators and programmers for the school's own extensions to EduSystem-EDP applications.

GROWTH AND EXPANSION

EduSystem-EDP is an open door. Faster peripherals and more powerful operating systems may be added as the school program requires. Instructional expansion may take the form of a VT05 TV-like terminal. This unique classroom display device can project its image onto as many as twelve large TV monitors and enable an entire class of students to simultaneously observe computer output. EduSystem-EDP can be expanded to the very powerful EduSystem-50 which supports as many as sixteen terminals simultaneously and speaks BASIC, FORTRAN, FOCAL, Assembler and ALGOL, at the same time.

Data Processing expansion may take the form of the addition of a cartridge disk pack to greatly speed execution times and facilitate file storage. Both EDP and Computer Science would benefit from the addition of the FPP8 Floating Point Processor and its very, very fast FORTRAN IV Level G operating system.

A low price to meet today's budget, and the expansion capability to meet tomorrow's needs—that's EduSystem-EDP.

EDUSYSTEM-EDP CONFIGURATIONS

DESCRIPTION	PURCHASE	LEASE/MO.*	MAINT./MO.	TOTAL/MO.*
Model 40TD (DECtape, 1 teletype, 1 DECwriter) PDP8/E rack-mounted computer with 12K words (24K 6 bit bytes) of core memory, teletype control, power restart, bootstrap, controller and two dual DECtape transports, optical mark card reader, console teletype and high speed DECwriter teleprinter, EduSystem-40 software package and EduSystem-EDP software, support and training.	$40,935	$ 791	$299	$1,090
Model 40TL (DECtape, 1 teletype, line printer) PDP8/E rack-mounted computer with 12K words of core memory, teletype control, power restart, bootstrap, controller and two dual DECtape transports, optical mark card reader, console teletype and 80-column 300 line/minute printer, EduSystem-40 software and EduSystem-EDP SST package.	$49,840	$ 987	$323	$1,310
Model 45TL (DECtape, 1 to 8 teletypes, line printer) PDP8/E rack-mounted computer with 16K words of core memory, teletype control, power restart, bootstrap, controller and two dual DECtape transports, optical mark card reader, console teletype and 80-column 300 line/minute printer, seven additional teletype interfaces, EduSystem-45 software and EduSystem-EDP SST package.	$54,540	$1,090	$378	$1,468

*The monthly lease rate is calculated on the purchase price less the EDP software, support and training costs of year one, so add the $5,000 EDP software, support and training charge to year one's lease payments.

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